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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/091,769	03/06/2002	Sung-Won Lee	678-815 (P10194) 6830	
28249	7590 11/28/2005		EXAMINER	
DILWORTH & BARRESE, LLP			NGUYEN, BINH QUOC	
333 EARLE OVINGTON BLVD. UNIONDALE, NY 11553			ART UNIT	PAPER NUMBER
	<b>-,</b>		2664	
			DATE MAILED: 11/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	N.					
	Application No.	Applicant(s)				
	10/091,769	SUNG WON LEE				
Office Action Summary	Examiner	Art Unit				
	Binh Q. Nguyen	2664				
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.4 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute the Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03/0	<u>6/2002</u> .					
2a) This action is <b>FINAL</b> . 2b) ⊠ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims						
4) Claim(s) 21 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.	6) Claim(s) 1-21 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers	·					
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreigr a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	u (PCT Rule 17.2(a)).	-				
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.				
		·				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4)					
<ul> <li>2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> </ul>		Patent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	·				

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by *Wegrzyn* the US Patent No: (US 5,29,540).

Regarding claim 1; Wegrzyn teaches a packet service method for a base station controller (BSC) in a mobile communication system, comprising the steps of:

receiving a packet (see col. 5, lines 9-28, input message means a packet) to be transmitted for a mobile station (MS) (see col. 9, lines 44-67, and col. 3, lines 23-45, mobile unit means mobile station (MS));

adding a field containing time information necessary for packet transmission on a radio link (col. 4, lines 48-67, transmission link 18, or 20 means a radio link) to the received packet (see col. 10, lines 54-65, and col. 2, lines 31-48, a time stamp means a field containing time information); and

transmitting the packet including the field to a base station transceiver sub-system (BTS) (see Fig. 1, Fig. 2, Fig. 4, col. 9, lines 44-67, and col. 4, lines 48-67, "a channel element (CE) 22 contains items 24, 26, 28, 30, 32" means a base station transceiver sub-system (BTS)).

Regarding claim 2. Wegrzyn teaches the packet service method of claim 1, further comprising the steps of:

determining whether a sequence number is to be used for the packet transmission (see col. 8, lines 11-65, and col. 24, lines 31-44); and

adding a field containing the sequence number of the packet to the packet if it is determined that the sequence number is to be used (see col. 8, line 11-to-col. 9, line 5).

Regarding claim 3. Wegrzyn teaches the packet service method of claim 1, wherein the time information is an action time when the packet is to be transmitted on the radio link (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45).

Regarding claim 4. Wegrzyn teaches the packet service method of claim 1, wherein the time information includes an action time when the packet is to be transmitted on the radio link (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45) and a waiting time for which the packet waits to be transmitted until there is an available radio link (col. 13, line 55-to-col. 14, line 13, and col. 11, lines 37-52, the processing resource means a radio link).

Regarding claim 5. Wegrzyn teaches a packet service method for a base station transceiver sub-system (BTS) in a mobile communication system, comprising the steps of: storing a packet received from a base station controller (BSC) (col. 9, lines 44-67);

(see col. 8, lines 11-29);

determining whether a current time is an action time when the received packet is to be transmitted based on time information set in a predetermined field of the packet (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45); and transmitting the packet to a mobile station (MS) on a radio link if the current time is an action time (col. 4, lines 48-67 and col. 8, lines 11-29).

Regarding claim 6. Wegrzyn teaches the packet service method of claim 5, wherein the action time is a time set in the predetermined field of the packet (see col. 33, lines 42-45).

Regarding claim 7. Wegrzyn teaches the packet service method of claim 5, wherein the action time is sum of a time set in the predetermined field of the packet and a pre-negotiated time (see col. 35, lines 44-67).

Regarding claim 8. Wegrzyn teaches a packet service method for a base station transceiver sub-system (BTS) in a mobile communication system, comprising the steps of: storing a packet received from a base station controller (BSC) (see col. 9, lines 63-67, Overhead message means a packet); determining whether there is a available radio link (col. 11, lines 37-52, the processing resource means a radio link); transmitting the packet to a mobile station (MS) on a radio link if there is a available radio link

determining whether a waiting time set in a predetermined field of the packet has expired if there is no available radio link (see col. 11, lines 12-52); and

discarding the packet if the waiting time has expired and determining whether there is an available radio link if the waiting time has not expired (see col. 20, lines 19-35).

Regarding claim 9. Wegrzyn teaches a packet service method for a base station transceiver sub-system (BTS) in a mobile communication system, comprising the steps of: storing a packet received from a base station controller (BSC) (see col. 9, lines 63-67, Overhead message means a packet);

determining whether a waiting time set in a predetermined field of the packet has expired (see col. 10, line 35-to-col. 11, lines 21);

discarding the packet if the waiting time has expired and determining whether there is an available radio link if the waiting time has not expired (see col. 20, lines 19-35); determining whether the waiting time has expired if there is no available radio link (see col. 11, lines 12-52) and determining whether the current time is an action time based on the time information if there is an available radio link (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45); and

transmitting the packet to a mobile station (MS) on the radio link at the action time (col. 4, lines 48-67 and col. 8, lines 11-29) and determining whether the waiting time has expired if the current time is not the action time (see col. 10, line 35-to-col. 11, lines 21).

Regarding claim 10. Wegrzyn teaches the packet service method of claim 9, wherein the

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action time is sum of a time set in the predetermined field of the packet (see col. 35, lines 44-67 and col. 33, lines 42-45).

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Regarding claim 11. Wegrzyn teaches the packet service method of claim 9, wherein the action time is sum of a time set in the predetermined field of the packet and a pre-negotiated time (see col. 35, lines 44-67).

Regarding claim 12. Wegrzyn teaches a packet service method for a base station controller (BSC) in a mobile communication system, comprising the steps of:

receiving a packet (see col. 5, lines 9-28, input message means a packet) to be transmitted for a mobile station (MS) (see col. 9, lines 44-67, and col. 3, lines 23-45, mobile unit means mobile station (MS));

determining whether a sequence number is to be used for the packet (see col. 8, lines 11-65, and col. 24, lines 31-44);

adding a field containing the sequence number of the packet to the packet if it is determined that the sequence number is to be used (see col. 21, lines 29-58); and

transmitting the packet including the field to a base station transceiver sub-system (BTS) (see Fig. 1, Fig. 2, Fig. 4, col. 9, lines 44-67, and col. 4, lines 48-67, "a channel element (CE) 22 contains items 24, 26, 28, 30, 32" means a base station transceiver sub-system (BTS)).

Regarding claim 13. Wegrzyn teaches a packet service method for a base station transceiver sub-system (BTS) in a mobile communication system, comprising the steps of: storing a packet received from a mobile station (MS) (col. 9, lines 44-67);

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determining whether a sequence number is to be used for the packet (see col. 8, lines 11-65, and col. 24, lines 31-44);

adding a field containing the sequence number of the packet to the packet if it is determined that the sequence number is to be used (see col. 21, lines 29-58); and

transmitting the packet including the field to a base station controller (BSC) (see Fig. 1, Fig. 2, Fig. 4, col. 9, lines 44-67, and col. 4, lines 48-67).

Regarding claim 14. Wegrzyn teaches a packet service method for a base station controller (BSC) in a mobile communication system, comprising the steps of: storing a packet received from a base station transceiver sub-system (BTS) (col. 9, lines 44-67); determining whether a current time is an action time based on a predetermined period (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45); checking whether the stored packet has an error at the action time (col. 6, lines 1-19); and transmitting the packet to a higher layer system if the packet has no errors (col. 4, lines 48-67 and col. 8, lines 11-29).

Regarding claim 15. Wegrzyn teaches a packet service method for a base station controller (BSC) in a mobile communication system, comprising the steps of: storing a packet received from a base station transceiver sub-system (BTS) (col. 9, lines 44-67); determining whether a sequence of the packet is valid or not by checking a sequence number set in the packet (see col. 8, lines 11-65, and col. 24, lines 31-44); and transmitting the packet to a high layer system if the packet sequence is valid (col. 4, lines 48-67 and col. 8, lines 11-29) and discarding the packet if the packet sequence is invalid (see col. 20, lines 19-35).

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Regarding claim 16. Wegrzyn teaches a packet service method in a mobile communication system, comprising the steps of:

adding a field containing time information necessary for packet transmission on a radio link (col. 4, lines 48-67, transmission link 18, or 20 means a radio link) to a packet to be transmitted for a mobile station (MS) in a base station controller (BSC) (see col. 10, lines 54-65, and col. 2, lines 31-48, a time stamp means a field containing time information) and transmitting the packet including the field from the BSC to a base station transceiver sub-system (BTS) (see Fig. 1, Fig. 2, Fig. 4, col. 9, lines 44-67, and col. 4, lines 48-67, "a channel element (CE) 22 contains items 24, 26, 28, 30, 32" means a base station transceiver sub-system (BTS)); storing the packet received from the BSC in the BTS (col. 9, lines 44-67); determining whether a current time is an action time based on the time information set in the field of the packet in the BTS (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45); and

transmitting the packet from the BTS to the MS on a radio link at the action time (col. 4, lines 48-67 and col. 8, lines 11-29).

Regarding claim 17. Wegrzyn teaches the packet service method of claim 14, wherein the action time is a time set in the field (see col. 33, lines 42-45).

Regarding claim 18. Wegrzyn teaches the packet service method of claim 14, wherein the action time is the sum of a time set in the field and a pre-negotiated time (see col. 35, lines 44-67).

Regarding claim 19. Wegrzyn teaches the packet service method of claim 14, further comprising the step of adding a field containing a sequence number of the packet to the packet in

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the BSC (see col. 2, lines 29-58).

Regarding claim 20. Wegrzyn teaches the packet service method of claim 14, wherein the time information includes a waiting time for which the packet waits to be transmitted until there is an available radio link (col. 13, line 55-to-col. 14, line 13, and col. 11, lines 37-52, the processing resource means a radio link), further comprising the step of discarding the packet if the packet is not transmitted until the waiting time expires (see col. 11, lines 12-52).

Regarding claim 21. Wegrzyn teaches a packet service method in a mobile communication system, comprising the steps of:

storing a packet received from a mobile station (MS) in a base station transceiver sub-system (BTS) (col. 9, lines 44-67), adding a field containing a sequence number of the packet to the packet in the BTS (col. 4, lines 48-67, transmission link 18, or 20 means a radio link), and transmitting the packet including the field from the BTS to a base station controller (BSC) (see lines 44-67, and col. 4, lines 48-67, "a channel element (CE) 22 contains items 24, 26, 28, 30, 32" means a base station transceiver sub-system (BTS));

determining whether a sequence of the packet is valid or not by checking the sequence number set in the header of the packet in the BSC (col. 6, lines 56-67, col. 10, lines 54-67, and col. 33, lines 42-45); and

transmitting the packet from the BSC to a high layer system if the packet sequence is valid (col. 4, lines 48-67 and col. 8, lines 11-29) and discarding the packet if the packet sequence is invalid (see col. 20, lines 19-35).

## **Contact Information**

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh Q. Nguyen whose telephone number is 571-272-8563. The examiner can normally be reached on M-F: 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully submitted,

Binh Q. Nguyen Patent Examiner 11/21/2005

> WEHLINGTON CHIN SUFERVISORY PATENT EXAMINER